

FILE NOTATION

Entered in NID PB

Entered On S R Sheet

Location Map Pinned

Card Indexed

IWR for State or Fed Land

COMPLETION DATA:

Date Well Completed

GW WW TA

GW OS PA

Checked by Chief

Copy NID to Field Office

Approval Letter

Disapproval Letter

Location Inspected

Bond released

State of Fed Land

LOGS FILED

Driller's Log

Electric Logs (No.)

E I E-I GR GR-N Micro
Lat. Mi-L Sonic Others



POWERS ELEVATION

**OIL WELL ELEVATIONS AND LOCATIONS
CHERRY CREEK PLAZA, SUITE 1201
888 SOUTH CHERRY STREET
DENVER, COLORADO 80222
PHONE NO. 303/321-2217**

May 29, 1980

U. S. Geological Survey
E. W. Guynn, District Engineer
1745 West 1700 South
2000 Administration Building
Salt Lake City, Utah 84138

Re: Filing NTL-6 and A.P.D. Form 9-331C
William C. Kirkwood
#14-15 Remington
697' FSL & 554' FWL
Sec. 15 T31S R15E
Garfield County, Utah

Dear Mr. Guynn:

Enclosed are three copies of the NTL-6 program and A.P.D. Form 9-331C for the above-referenced well location.

Please notify us when you have arranged a time with the B.L.M. to inspect the site, in order that Larry Becker, our surveyor who did the ground work for this application may be present during the inspection.

The archaeological report is not included with the NTL-6 but will be forwarded to your office, and to the B.L.M. office, from our Archaeological Division.

Sincerely yours,

POWERS ELEVATION

Connie L. Frailey
Connie L. Frailey

CLF:mc
Enclosure

cc: William Vandeventer, William C. Kirkwood, Casper, Wyoming
Larry Becker, Powers Elevation, Grand Junction, Colorado
Dirt Contractor

Powers Elevation
Suite 1201 Cherry Creek Plaza
600 So. Cherry Street
Denver, Colorado 80222

RE: Filing NTL-6 and A.P.D. Form 9-331C
William C. Kirkwood
#14-15 Remington
697' FSL & 554' FWL
Sec. 15 T31S R15E
Garfield County, Utah

Gentlemen:

This is to confirm our understanding with you that Powers Elevation is authorized to act as our agent in the following capacities:

- A. In surveying, staking, and preparing and filing necessary applications, permits and compliance programs, including complete NTL-6 reports, for the above-referenced project.
- B. In accepting on our behalf any changes to location, proposed facilities and/or surface use plan and compliance program requested at on-site inspections, when we are unable to have a Company representative present. Such changes will then be binding upon us or designated Operator.

POWERS' responsibilities do not include construction of location or supervision of drilling, completion or rehabilitation operations.

W C Kirkwood Oil & Gas
Company

by: Steven C. Kirkwood

Title: Geologist

Date: 5/2/80



United States Department of the Interior

IN REPLY REFER
3100(U-504

BUREAU OF LAND MANAGEMENT

Henry Mountain Resource Area
P.O. Box 99
Hanksville, UT. 84734

June 30, 1980

George Diwachak
USGS Conservation Division
2000 Administration Building
1745 W. 1700 S.
Salt Lake City, UT. 84104

Re: Kirkwood Oil
Proposed Drilling Project
T. 31 S., R. 14 E. and T. 31 S., R. 15 E.

Dear Mr. Diwachak:

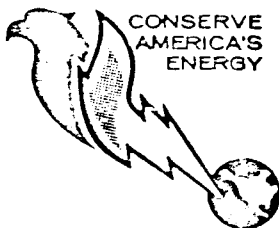
The following information concerns surface protection stipulations to be incorporated into the APD's for the above referenced drilling project.

Site specific stipulations for each of the eight locations include the following:

| <u>WELL NAME</u> | <u>LOCATION</u> | <u>LEASE NUMBER</u> |
|------------------|--|---------------------|
| 1- Magnum 23-8 | NE $\frac{1}{4}$ SW $\frac{1}{4}$ 8 T. 31 S., R. 15 E. | U-21478 |

- a - The site will be moved roughly 400 ft. to the east to a point where it's coordinates in section 8 are 1900' FEL and 1790' FSL.
- b - The drill site will not be bladed.
- c - A small reserve pit will be constructed to hold cuttings.
- d - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

| <u>SPECIES</u> | <u>LBS/ACRE</u> |
|------------------|-----------------|
| Shadscale | 3 |
| Indian ricegrass | 3 |
| Galleta grass | 2 |



Save Energy and You Serve America!

See page 3 for STIPs - Page 5 for clearances

- e - All trash and debris will be carried off site and disposed of in a BLM approved location.
- f - Access to the site will be on an existing road. Blading will be kept to a minimum, old rocks and debris will be removed and no new cuts will be authorized.

2 - White Rim 44-4 SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ 4, T. 31 S., R. 15 E. U-21083

- a - The site will be moved from the SESESE, to the NESESE of section 4.
- b - The drill site will not be bladed.
- c - A small reserve pit will be cut to hold cuttings.
- d - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

SPECIES

LB/ACRE

| | |
|------------------|---|
| Shadscale | 3 |
| Indian ricegrass | 3 |
| Galleta grass | 2 |

- e - All trash and debris will be carried off site and disposed of in a BLM approved location.
- f - Access to the site will be on an existing road. Blading will be kept to a minimum.

3 - Garfield 44-15 SE $\frac{1}{4}$ SE $\frac{1}{4}$ 15, T. 31 S., R. 15 E. U-21037

- a - The drill site will not be bladed.
- b - A small reserve pit will be constructed to hold cuttings.
- c - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

SPECIES

LB/ACRE

| | |
|------------------|---|
| Shadscale | 3 |
| Indian ricegrass | 3 |
| Galleta grass | 2 |

- d - All trash and debris will be carried off-site and disposed of in a BLM approved site.
- e - Access to the site will be confined to the existing road. Blading will be kept to a minimum by simply removing any rocks and debris

blocking the road and by filling in any washed out areas.

4 - Winfield 21-15 NE $\frac{1}{4}$ NW $\frac{1}{4}$ 15, T. 31 S., R. 15 E. U-21037

- a - The drill site will not be bladed.
- b - A small reserve pit will be constructed to hold cuttings.
- c - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

| <u>SPECIES</u> | <u>LB/ACRE</u> |
|------------------|----------------|
| Shadscale | 3 |
| Indian ricegrass | 3 |
| Galleta grass | 2 |

- d - All trash and debris will be carried off-site and disposed of in a BLM approved site.
- e - Access to the site will be confined to the existing road. Blading will be kept to a minimum by removing only those rocks and debris blocking the road and by filling in any washed out areas.

~~5 - Remington 14-15 SW $\frac{1}{4}$ SW $\frac{1}{4}$ 15; T. 31 S., R. 15 E. U-21037~~

- a - The drill site will not be bladed.
- b - The two rock cairns on the access road will be left intact.
- c - A small reserve pit will be constructed to hold cuttings.
- d - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

| <u>SPECIES</u> | <u>LB/ACRE</u> |
|------------------|----------------|
| Shadscale | 3 |
| Indian ricegrass | 3 |
| Galleta grass | 2 |

- e - All trash and debris will be carried off-site and disposed of in a BLM approved site.
- f - Access to the site will be confined to the existing road. Blading will be kept to a minimum by removing only those rocks and debris blocking the road and by filling in any washed out areas.

6 - Monroe 22-20 SE $\frac{1}{4}$ NW $\frac{1}{4}$ 20, T. 31 S., R. 15 E. U-21477

- a - The drill site will be moved 75 feet to the west in order to drill on a level spot on the old existing road.
- b - The drill site will not be bladed.
- c - A small reserve pit will be constructed to hold cuttings.
- d - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

SPECIES

LB/ACRES

| | |
|------------------|---|
| Shadscale | 3 |
| Indian ricegrass | 3 |
| Galleta grass | 2 |

- e - All trash and debris will be carried off-site and disposed of in a BLM approved site.
- f - Access to the site will be confined to the existing road. Blading will be kept to a minimum by removing only those rocks and debris blocking the road and by filling in any washed out areas.

7 - Eastex 41-20 NE $\frac{1}{4}$ NE $\frac{1}{4}$ 20, T. 31 S., R. 15 E. U-21477

- a - The drill site will not be bladed and will be located directly adjacent to main access road in North Hatch Canyon.
- b - A small reserve pit will be constructed to hold cuttings.
- c - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

SPECIES

LB/ACRE

| | |
|------------------|---|
| Shadscale | 3 |
| Indian ricegrass | 3 |
| Galleta grass | 2 |

- d - All trash and debris will be carried off-site and disposed of in a BLM approved site.

8 - Cromwell 33-29 SW $\frac{1}{4}$ SE $\frac{1}{4}$ 29, T. 31 S., R. 15 E. U-21476

- a - The drill site will not be bladed.
- b - A small reserve pit will be constructed to hold cuttings.

- c - Access to the site will involve blading roughly 3/4 mile of new road from the existing road in South Hatch Canyon. This road will be constructed with a minimum amount of blading and will be reclaimed from the site all the way back to the South Hatch Canyon road. All cuts will be recontoured, the road disked and revegetated by hand broadcasting the following species.

| <u>SPECIES</u> | <u>LB/ACRE</u> |
|------------------|----------------|
| Shadscale | 3 |
| Indian ricegrass | 3 |
| Galleta grass | 2 |

- d - Upon completion of the well the pit will be covered, the site will be disked and the above listed species will be hand broadcasted over the site.
- e - All trash and debris will be carried off and disposed of in a BLM approved site.

In addition to the above mentioned site specific stipulations the entire project should be covered by two more protective measures.

- 1) No unnecessary off-road driving will be authorized. Four-wheel drives will be restricted to existing roads.
- 2) No uranium claim markers, or cairns, will be destroyed or damaged.

The majority of the project takes place in BLM Wilderness Inventory Unit # 241, Fiddler Butte. The areas wilderness characteristics are not exceptional and as a result the BLM's inventory has recommended that the unit be dropped from any further wilderness study. However, under BLM's Interim Management Policy of Lands Under Wilderness Review (IMP), we are mandated to protect the area from any further undue or unnecessary degradation until October 1, 1980, at which time the area will officially fall out of further wilderness consideration. This time frame allows the public to comment on our decision. If there are any comments or protests to put this area back into wilderness study status, then the Bureau will have to assess the comments and decide if they are worthy of consideration. Therefore, the area could go back into wilderness study status in October and as a result we must protect the area.

The BLM's IMP Guidelines mandate that these wilderness guidelines be addressed in an Environmental Assessment (EA).

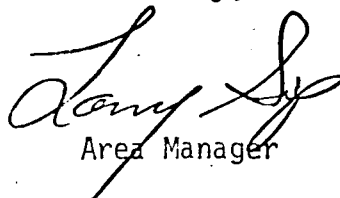
Therefore, since the GS is preparing the EA for this project, we would request that this information be included in the document. You can also include the statement that the Bureau has determined that impacts from this project will not impair the wilderness characteristics of the area and that if the mitigating measures are followed, the impacts can be returned to a substantially unnoticeable condition.

The BLM has also conducted surveys for Threatened and Endangered Plants and Animals in the project area and as a result of these surveys T & E clearances

are granted as no T & E plants or animals were found. The BLM can also grant Archaeological clearance at this time based on an archaeological survey conducted of the area by Powers Elevation Company.

If you have any questions concerning the foregoing discussion, or if you need any additional information, please feel free to contact our office.

Sincerely,



Area Manager

CC; Chuck Horsburgh
Richfield BLM

W.J. Averett, Consulting Petroleum Engineer
1682 Woodland Dr.
Provo, Utah 84601

RISES VERTICALLY TO
"THE BIG RIDGE".

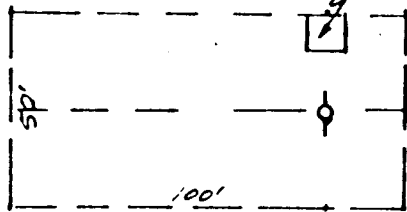
PIT & PAD LAYOUT
#14-15 REMINGTON
WILLIAM C. KIRKWOOD
SEC. 15, T. 31S, R. 15E.

LARGE
BOULDERS

ONE INCH = 50 FEET

BENCH AREA

10'x10' PIT



EDGE OF BENCH?

POWERS ELEV. CO.
GRAND ST., COLO.
BY LARRY D. BECKER
6.28.80

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

| | | |
|---|--|---|
| 1A. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> | | 5. LEASE DESIGNATION AND SERIAL NO. U-21037 |
| B. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> | | 6. IF INDIAN, ALLOTED OR TRIBE NAME N/A |
| 2. NAME OF OPERATOR William C. Kirkwood | | 7. UNIT AGREEMENT NAME Hatch Canyon |
| 3. ADDRESS OF OPERATOR P. O. Drawer 3439, Casper Wyoming 82601 | | 8. FARM OR LEASE NAME Remington |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 697' FSL & 554' FWL (SW SW) | | 9. WELL NO. #14-15 |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Same Approximately 40 miles East of Hanksville, Utah | | 10. FIELD AND POOL, OR WILDCAT Wildcat |
| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 554' | | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 15 T31S R15E |
| 16. NO. OF ACRES IN LEASE 2560 | | 12. COUNTY OR PARISH Garfield |
| 17. NO. OF ACRES ASSIGNED TO THIS WELL 40 | | 13. STATE Utah |
| 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2640' + | | 20. ROTARY OR CABLE TOOLS Rotary |
| 19. PROPOSED DEPTH 650' <i>drill plug</i> | | 22. APPROX. DATE WORK WILL START* June 15, 1980 |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5307' GR | | |

PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------------------|
| 8 1/2" | 6 5/8" New | 24# K-55 8 Rd. | 20' | 10 sxs cement, Class "G" 2% Ca |
| 8 5/8" | 4 1/2" New | 9.5# K-55 8Rd. | 650' | 50 sxs cement, Class "G" 2% Ca |

1. Drill 8 1/2" hole and set 6 5/8" surface casing to 20' with good returns.
2. Log B.O.P. checks in daily drill reports and drill 5 5/8" hole to 650'.
3. Run tests if warranted and run 4 1/2" casing if productive.
4. Run logs, as needed, and perforate and stimulate as needed.

EXHIBITS ATTACHED:

- "A" Location and Elevation Plat
"B" The Ten-Point Compliance Program
"D" The Multi-Point Requirements for A.P.D.
"E" Access Road Maps to Location
"F" Radius Map of Field

RECEIVED
JUL 08 1980APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING
DATE: 7-9-80BY: *W. J. Minder*

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present production zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *W. C. Vandenbroucke* TITLE *Petro. Engr.* DATE *2-14-80*

(This space for Federal or State office use)

PERMIT NO. *43-017-30086*APPROVAL DATE *7/9/80*APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

EXHIBIT "B"
TEN-POINT COMPLIANCE PROGRAM
OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C
William C. Kirkwood
Remington 14-15
SW SW. Sec. 15 T31S R15E
697' FSL & 554' FWL
Garfield County, Utah

1. The Geologic Surface Formation

The surface formation is the Chinle.

2. Estimated Tops of Important Geologic Markers

| | |
|-------------|------|
| White Rim | 380' |
| Organ Rock | 630' |
| Total depth | 650' |

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

No water zones anticipated

| | | |
|-----------|-----|-----|
| White Rim | 380 | Oil |
|-----------|-----|-----|

4. The Proposed Casing Program

| <u>HOLE SIZE</u> | <u>INTERVAL</u> | <u>SECTION LENGTH</u> | <u>SIZE (OD)</u> | <u>WEIGHT, GRADE & JOINT</u> | <u>NEW OR USED</u> |
|----------------------|-----------------|---------------------------|----------------------|--------------------------------------|----------------------------|
| 8½" | 0-20' | 20' | 6 5/8" | 24# K-55 8 Rd. | New |
| 5 5/8" | 650' | 650' | 4 1/2" | 9.5# K-55 8Rd. | New |

Cement Program

Surface - 10 sxs cement, Class "G" 2% Ca Cl.
Production 50 sxs cement, Class "G" 2% Ca Cl.

5. The Operator's Minimum Specifications for Pressure Control

No pressure control equipment will be required.

6. The Type and Characteristics of the Proposed Circulating Muds

Air Drilled.

7. The Auxiliary Equipment to be Used

N/A

8. The Testing, Logging and Coring Programs to be Followed

- (a) No DST'S are anticipated.
- (b) An IES Log & a Density log will be run from surface to 630 feet.
- (c) Coring is anticipated from the top of the White Rim to top of the Organ Rock, a total of 250 feet.
- (d) Stimulation procedures will be determined after evaluation of logs. If treatment is indicated, appropriate Sundry Notice will be submitted.

9. Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well.

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is set for June 15, 1980, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 4 days after spudding the well and drilling to casing point.

EXHIBIT "D"

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Attached to Form 9-331C
William C. Kirkwood
#14-15 Remington
SW SW, Sec. 15 T31S R15E
697' FSL & 554' FWL
Garfield County, Utah

1. Existing Roads

- A. The proposed well site and elevation plat is shown as EXHIBIT "A". Staking included two 200' directional reference stakes, also shown on EXHIBIT "A".
- B. Frank Hanksville Post Office go Easterly 18.2 miles on Highway 95; turn left on BLM dirt road to Poison Spring Canyon; go 16.4 miles to Dirty Devil River. Ford River and take road around Buckacre Point to intersection with road from North; follow this road to the flagged access road into the location.
- C. All roads to location are color-coded on EXHIBIT "E". A new access road from the existing road will be used as shown on EXHIBIT "E".
- D. This is an exploratory well. All existing roads within a three-mile radius are shown on EXHIBIT "E".
- E. N/A
- F. The existing roads need no improvement except to clear off rocks and repair winter damage.

2. Planned Access Roads

Map showing all necessary access roads to be constructed or reconstructed is shown as EXHIBIT "E" for the following:

A. Drilling Operations

- 1. If rocks are removed, the 0.1 mile of new access road can be used without blading. No surfacing is planned. The truck-mounted rig used for drilling weighs approximately 8 tons.

2. The grade will be 5 %.
3. No turnouts are planned.
4. No drainage design is planned.
5. No culverts are needed.
6. No gates or fence cuts and cattleguards will be required.
7. The new access road to be used was center line flagged. This road does cross B.L.M. lands, as shown on EXHIBIT "E".

B. Production

1. The grade on the existing roads ranges from 0-15%; most areas are 3-4%. No road construction or upgrading is planned if well is productive.

3. Location of Existing Wells

For all existing wells within two mile radius of Exploratory well, see EXHIBIT "F".

- (1) There are 0 water wells within a two mile radius of this location.
- (2) There are 0 abandoned wells in this two mile radius.
- (3) There are 0 temporarily abandoned wells.
- (4) There are 0 disposal wells.
- (5) There are 0 wells presently being drilled.
- (6) There are 0 producing wells within this two mile radius.
- (7) There are 0 shut-in wells.
- (8) There are 0 injection wells.
- (9) There are 0 monitoring or observation wells for other uses.
- (10) There are several core holes for prospecting located throughout the canyon lands.

4. Location of Existing and/or Proposed Facilities

A. Within one-mile radius of location, the following existing facilities are owned or controlled by lessee/operator:

- (1) T. Batteries: None

(2) Production Facilities: None

(3) Oil Gathering Lines: None

(4) Gas Gathering Lines: None

(5) Injection Lines: None

(6) Disposal Lines: None

B. If production is obtained, there will be no production facilities installed at this time.

5. Location and Type of Water Source

No water will be required. This well is to be air-drilled.

6. Construction Materials

No construction materials are needed for any phase of the proposed operations.

7. Handling of Waste Materials and Disposal

(1) There will be no drill cuttings. This well is to be air-drilled and exhaust will be dispersed into the atmosphere.

(2) There will be no drill fluids and no pits will be dug. If any water is encountered during drilling, a surface tank will be set.

(3) Garbage and trash will be collected in containers and hauled away to approved sanitary landfill. Human waste will be collected in chemical facility and hauled away.

(4) All materials used during drilling will be removed from the drillsite within 30 days after completion of drilling.

8. Ancillary Facilities

No air strip, camp or other facilities will be built during drilling of this well.

9. Well Site Layout

(1) No drill pad will be constructed for drilling this well.

(2) A truck-mounted rig will be used. The truck is approximately 30' long and weighs approximately 8 tons.

- (3) No pits will be dug. There will be no living facilities or trailers on site.

10. Plans for Restoration

- (1) Such disturbance as will be created by this drilling operation can be easily repaired should this area be finalized as a Wilderness and Recreation Area.
- (2) After drilling operations cease, revegetation and restoration will be performed in accordance with B.L.M. recommendations. This will be undertaken within whatever time frame the B.L.M. deems advisable.

11. Other Information

- (1) Soil is sandy and clay loam. The location sits at the base of The Big Ridge, on a plateau. Vegetation is cedar trees, cactus, shadescale; location is barren and rocky. There are livestock, deer, coyotes, rabbits, rodents, lizards and chubars in the area.
- (2) The primary surface use is for grazing and recreation. The surface is owned by the U.S. Government.
- (3) The closest live water is in South Hatch Canyon, South of location, as shown on EXHIBIT "E".

The closest dwelling is Hite Marina, 20+ miles Southerly.

There are no known archaeological, historical, or cultural heritages that will be disturbed by this drilling.

- (4) There are no reported restrictions or reservations noted on the oil and gas lease.
- (5) Drilling is planned for on or about June 15, 1980. It is anticipated that the casing point will be reached within 4 days after commencement of drilling.

12. Lessee's or Operator's Representative

George Lapaseotes
Agent Consultant for
William C. Kirkwood
600 South Cherry Street
Suite 1201
Denver, Colorado 80222
Phone (303) 321-2217

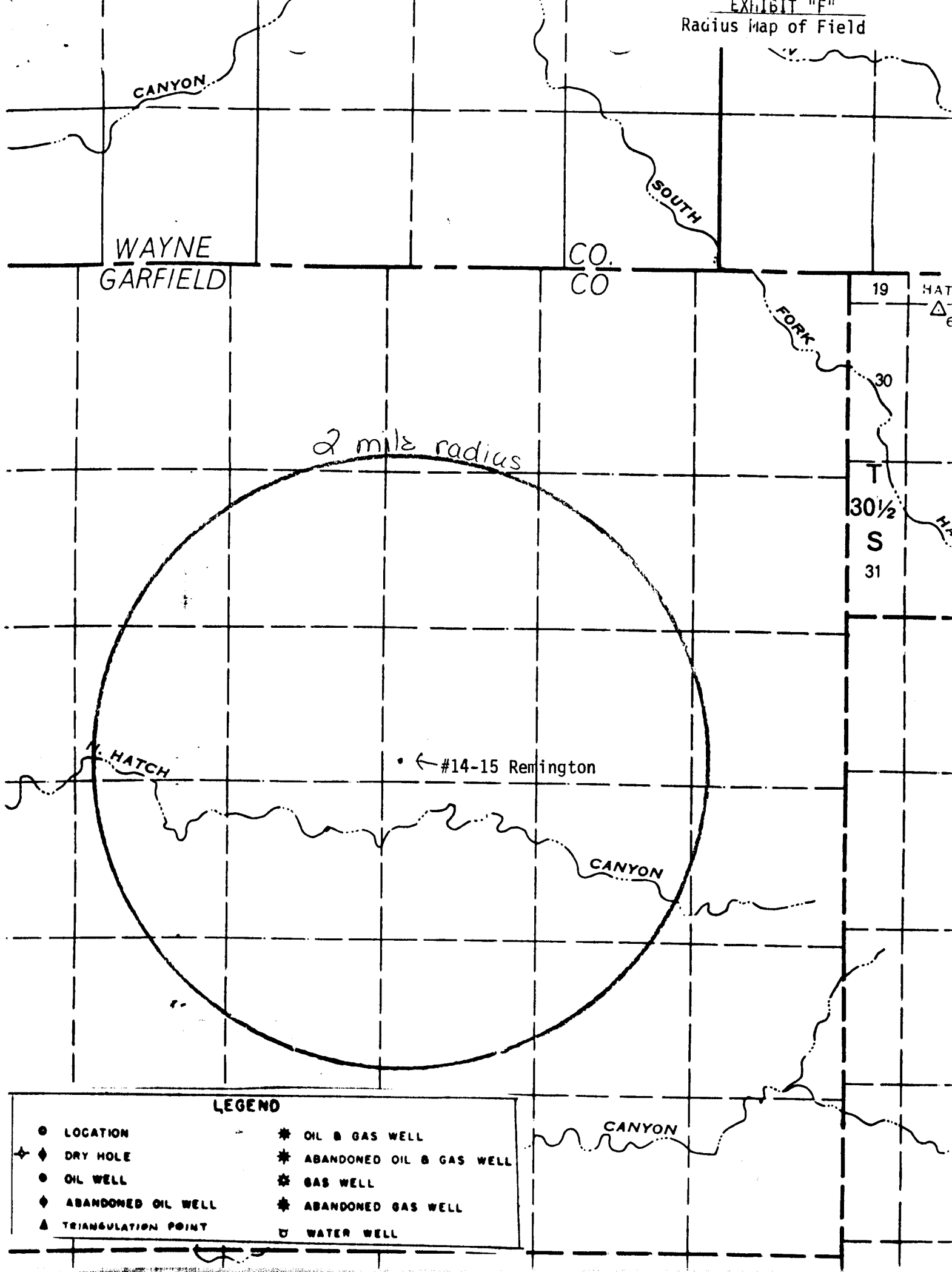
William C. Vandeventer
William C. Kirkwood
Drawer 3439
Casper, Wyoming 82601
(307) 265-5178

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by William C. Kirkwood and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

5-29-80
Date

George Lapaseotes
George Lapaseotes
Agent Consultant for
William C. Kirkwood



LEGEND

- | | |
|-----------------------|----------------------------|
| ● LOCATION | * OIL & GAS WELL |
| ◆ DRY HOLE | * ABANDONED OIL & GAS WELL |
| ● OIL WELL | * GAS WELL |
| ◆ ABANDONED OIL WELL | * ABANDONED GAS WELL |
| ▲ TRIANGULATION POINT | □ WATER WELL |

FROM: : DISTRICT GEOLOGIST, ~, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-21037OPERATOR: William C. KirkwoodWELL NO. 14-15LOCATION: NW 1/4 SW 1/4 SW 1/4 sec. 15, T. 31S., R. 15E., SLM
Garfield County, Utah

1. Stratigraphy: Operator tops appear reasonable

| | |
|------------|-------------|
| Chinle | surface |
| White Rim | 380' |
| Organ Rock | 630' |
| <u>TD</u> | <u>650'</u> |

2. Fresh Water:

None probable

3. Leasable Minerals:

4. Additional Logs Needed: Adequate

5. Potential Geologic Hazards: None anticipated

6. References and Remarks:

Heavy oil. - might require Tertiary extraction methods

Signature: Gregory W. WoodDate: 6 - 24 - 80

Oil and Gas Drilling

EA #485-80

United States Department of the Interior
Geological Survey
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, Utah 84104

Usual Environmental Analysis

Date: July 1, 1980

Operator: William C. Kirkwood Project or Well Name and No.: 14-15

Location: 697' FSL & 554' FWL Sec.: 15 T.: 31S R.: 15E

County: Garfield State: Utah Field/Unit: Wildcat

Lease No.: U-21037 Permit No.: N/A

Joint Field Inspection Date: June 26, 1980

Prepared By: George Diwachak

Field Inspection Participants, Titles and Organizations:

| | | |
|--------------------|-------------------------|---------------------|
| George Diwachak | Environmental Scientist | U.S.G.S. |
| Larry Gearhart | Surface Protection | BLM |
| Lynn Jackson | Geologist | BLM |
| Wallace J. Averett | Engineer | William C. Kirkwood |
| Larry Becker | Surveyor | Powers Elevation |

Related Environmental Analyses and References:

- (1) Final Environmental Statement - Proposed General Management Plan, Wilderness Recommendation, Road Study Alternatives: Glenn Canyon National Recreation Area, National Park Service, Page, Arizona, July 1979.

lj 7/3/80

Noted - G. Diwachak

DISCRIPTION OF PROPOSED ACTION

Proposed Action

1. Location State. Utah.

County. Garfield

697' FSL 554' FWL, SW 1/4 SW 1/4

Section 15, T 31S, R 15E, S L M.

2. Surface Ownership Location. Public.

Access Road: Public.

Status of
Reclamation Agreements Not Applicable.

3. Dates APD Filed: June 4, 1980 .

APD Technically Complete. June 23, 1980 .

APD Administratively Complete: 7-29-80 .

4. Project Time Frame

Starting Date. Upon approval .

Duration of Drilling activities. 2-3 days.

A period of 30 to 60 days is normally necessary to complete a well for production if hydrocarbons are discovered. If a dry hole is drilled, recontouring and reseeding would normally occur within one year, revegetation or restoration may take several years. If the well is a producer, an indefinite period of time would occur between completion and rehabilitation.

5. Related actions of other federal or state agencies and Indian tribes:

The location falls within a BLM Wilderness Study Area with no exceptional wilderness characteristics and as a result of a BLM inventory, the unit has been recommended to be dropped from further study (See attached BLM Memo).

6. Nearby pending actions which may affect or be affected by the proposed action:

None known.

7. Status of Variance Requests

None known.

The following elements of the proposed action would/could result in environmental impacts:

1. The drill site would not be bladed. A truck mounted, air drilling rig would be employed utilizing an area 50 feet wide by 100 feet long. A small 10' X 10' reserve pit would be constructed to hold cuttings. A pit toilet would also be constructed for human sewage.

A 0.1 mile access road, 12-16 feet in wide would be bladed to the site.

Surface disturbances would be kept to a minimum.

This well is part of an 8 well program within T 31S, R 15E.

2. Drilling techniques would employ a small truck mounted, air rig.
3. Waste disposal - All trash would be confined to containers and disposed of in a BLM approved location.
4. Traffic would be minimal and should be confined to existing roadways.
5. Water requirements - None needed.
6. Completion - None Anticipated.
7. Production - No production facilities are anticipated at this time.
8. Transportation of hydrocarbons - Not requested in APD.

Details of the proposed action are described in the Application for Permit to Drill.

Environmental Considerations of the Proposed Action:

Regional Setting/Topography: Regional topography consists of Canyonlands terrain, steep, rock walled canyons and mesas with relatively flat valleys, within the Dirty Devil River Basin. The location is situated in the bottom of South Hatch Canyon at the base of the talus flanked, steep walled Big Ridge of North Hatch Canyon.

PARAMETER

A. Geology

1. Other Local Mineral Resources to be Protected: None.

Information Source: APD, Mineral Evaluation Report, Mining Report.

2. Hazards:

a. Land Stability: No instability expected, wellsite terrain is basically flat. A truck mounted rig with hydraulically controlled leveling devices would be used.

Information Source: APD, Field Observation, Operator.

- b. Subsidence: None expected.

Information Source: APD, Field Observation.

- c. Seismicity: The wellsite is in an area of minor seismic risk.

Information Source: Rocky Mountain Association of Geologists.

- d. High Pressure Zones/Blowout Prevention: No high pressure anticipated or found during drilling of nearby State Wells in Section 32, T 31S, R 15E and Section 36, T 31S, R 14E. No BOP equipment planned for this shallow test.

Information Source: APD, Operator.

B. Soils:

1. Soil Character: Soils in the area are a sandy clay with occasional sandy areas. Soil disturbances would be minimal and confined to pit and road construction.

Information Source: Field Observation, APD, BLM.

2. Erosion/Sedimentation: Minimal as surface disturbances would be limited to road blading.

Information Source: BLM, APD, Field Observation.

- C. Air Quality: The wellsite is within a Class II Attainment Area. Air quality would decrease temporarily from rig and vehicle emissions and fugitive dust.

Information Source: BLM, Field Observation.

- D. Noise Levels: Noise levels would increase temporarily from rig and vehicle operations affecting wildlife in a distributional sense.

Information Source: Field Observation.

E. Water Resources

1. Hydrologic Character

- a. Surface Waters: No perennial drainages in area. Wellsite is in Dirty Devil River Basin which flows to Lake Powell. Some siltation to Lake Powell could occur but would be minimal. No water is needed for drilling.

Information Source: Field Observation, APD.

- b. Ground Waters: No fresh water expected to be encountered during drilling. Commingling of any aquifers in area is possible.

Information Source: Mineral Evaluation Report.

2. Water Quality

- a. Surface Waters. Spill potential to live surface waters is minimal.

Information Source: Field Observation.

- b. Ground Waters Insignificant impacts expected since air drilling techniques would be employed.

Information Source: Field Observation, APD.

F. Flora and Fauna

1. Endangered and Threatened Species Determination

Based on the formal comments received from the BLM on July 1, 1980, we determine that there would be no effect on endangered and threatened species and their critical habitat.

2. Flora: Vegetation in area is sparse due to limited water. Plants are of a blackbrush community.

Information Source: Field Observation, BLM.

3. Fauna: Wildlife in area is sparse due to limited food source and consists predominately of rodents, coyotes, reptiles, chukars, songbirds and few raptors.

Information Source: APD, Field Observation, BLM.

G. Land Uses

1. General: The general area is used for grazing, minimal mineral exploration/extraction and recreation.

Information Source: BLM, Field Observation.

2. Affected Floodplains and/or Wetlands: N/A.

Information Source: Field Observation.

3. Roadless/Wilderness Area: The wellsite falls within BLM Wilderness Inventory Unit #241, Fiddler Butte. The area's wilderness characteristics are not exceptional and as a result, a BLM inventory has recommended that the unit be dropped from any further wilderness study, however, under BLM's Interim Management Policy of Lands under Wilderness Review (IMP), it is mandated that the area be protected from any further undue or unnecessary degradation until October 1, 1980, at which time the area will officially fall out of further wilderness consideration., This allows for public comment on BLM's decision. Any comments or protests to return this area back into wilderness study status would require the BLM to assess the comments and decide if they are worthy of consideration. Therefore, the area could return into Wilderness Study Status in October.

The BLM has determined that impacts from this project would not impair the wilderness characteristics of the area. This fact is supported by the operating plan presented in the APD. Furthermore, if recommended mitigative measures are followed, any impacts could be returned to a substantially unnoticed condition.

- H. Aesthetics: The operation does not blend in with the natural surroundings. However, considering the short duration of drilling the proposed 8 well program and the minimal surface disturbances proposed, this action would pose little impact to area aesthetics.

Information Source: Field Observation, APD.

- I. Socioeconomics: The remoteness of the area limits socioeconomic impacts in Garfield County, Utah. Most services and personnel would emanate from Moab, Utah, utilizing company camp facilities on State Lands. Some economic increases could be expected in Hanksville, Utah, the nearest town.

Information Source: Field Observation.

- J. Cultural Resources Determination: - Based on the formal comments received from BLM on July 1, 1980, we determine that there would be no effect on cultural resources.

Information Source: BLM.

- K. Other: Glen Canyon National Recreation Area is located about 5 miles south-east of the project area. No impacts to the recreation area are expected. Lake Powell is about 20 miles southeast of the site.

Information Source: Field Observation.

- L. Adequacy of Restoration Plans: The restoration plan meets the minimum requirements of NTL-6. Restoration recommendations have been supplied by the BLM.

Information Source: BLM, Field Observation, APD.

Alternatives to the Proposed Action:

1. Disapproving the proposed action or no action - If the proposed action is denied, no action would occur, the existing environment would remain in its present state, the lessee/operator would not realize any return on investments and the public would be denied a potential energy source.
2. Approving the project with the recommended stipulations - Under federal oil and gas leasing provisions, the Geological Survey has a responsibility to approve mineral development if the environmental consequences are not too severe or irreversible. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and Surface Management Agency supervision. Environmental impacts would be significantly mitigated.

Adverse Environmental Effects:

1. If approved as proposed:

- a. About 0.25 acre of vegetation would be removed, increasing and accelerating erosion potential.
- b. Minor air pollution would be induced on a temporary basis due to exhaust emissions from rig engines and support traffic.
- c. The potential for fires, leaks, spills of gas and oil or water exists but is minimal.
- d. During construction and drilling phases of the operation, noise and dust levels would increase.
- e. Distractions from aesthetics during the lifetime of the project would exist.
- f. Erosion from the site would eventually be carried as sediment in the Lake Powell.
- g. If hydrocarbons would be discovered and produced, further development of the area could be expected to occur, which would result in the extraction of irreplaceable resource, and further negative environmental impacts. These impacts include the cumulative loss of wildlife habitat due to the areas necessary for roads, pipelines, drillsites, and transmission lines. These actions may disrupt wildlife social behavior and force habitat relocation over an extended period of time. In addition, the cumulative effects of non-point erosion become substantial in a developing field, primarily those located near perennial streams where siltation and sedimentation are critical to aquatic life cycles.

2. Conditional Approval:

All adverse impacts described in section one above could occur, except:

- a. Constructing a reserve pit would provide for adequate disposal of cuttings and any encountered ground water.
- b. Keeping dirt work to a minimum would preserve the remote, pristine characteristics of the area.

Recommended Approval Conditions:

Drilling should be allowed, provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator:

1. See attached BLM Stipulations.
2. The drillsite will not be bladed, however, a small 10' by 10' reserve pit and a pit toilet would be constructed.

3. All trash and debris will be removed from the site.

4. Access to the site will be confined to the existing trail. Blading will be kept to a minimum removing only rocks and debris blocking the road and by filling in any washed out areas.

Controversial Issues and Conservation Division Response:

None.

We have considered the proposed action in the preceding pages of this EA and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment.

Determination:

I determine that the proposed action (as modified by the recommended approval conditions) does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102 (2)(C).


DISTRICT ENGINEER
Signature & Title of Approving Official

JUL 15 1980
JUL 15 1980
Date



KIRKWOOD

14-15

N

SELECTED REFERENCES

- Anderson, B.A. 1979, Desert Plants of Utah: Cooperative Extension Service, Utah State University, Logan, Utah. 146 p.
- Bureau of Land Management, 1979, Final Initial Wilderness Inventory, Utah: U.S. Department of the Interior, BLM, Salt Lake City, Utah, 50 p.
- Bureau of Land Management, 1979, Interim Management Policy and Guidelines for Lands Under Wilderness Review: U.S. Department of the Interior, BLM, Washington, D.C. 32 p.
- Keller, E.A., 1976, Environmental Geology: C.E. Merril Publishing Company, Columbus, Ohio. 488 p.
- National Park Service, 1979, Draft Mineral Management Plan: USDI/NPS, Page, A2. 56 p.
- National Park Service, 1979, Proposed General Management Plan, Wilderness Recommendations, Road Study Alternatives, Final Environmental Statement, Glen Canyon National Recreation Area / Arizona-Utah: USDI/NPS, Page A2. 347p.
- Rocky Mountain Association of Geologists, 1972, Geologic Atlas of the Rocky Mountain Region: Denver, Colorado. 331 p.
- U.S. Geological Survey, 1979, Development of Coal Resources in Southern Utah, Final Environmental Statement: Department of the Interior, U.S. Geological Survey, Washing, D.C. 611 p.
- Wilson, LeMoyné, et.al, 1975, Soils of Utah: Agricultural experiment Station, Bulletin 492, Utah State University, Logan, Utah. 94 p.
- Zarn, Mark, 1977, Ecological Characteristics of Pinyon-Juniper Woodlands on the Colorado Plateau: U.S. Dept. of Interior, Bureau of Land Management, Technical Note 310, Denver, Colorado 183 p.

William Kirkwood

Memorandum

To: District Oil and Gas Engineer, Mr. Edward Gynn
From: Mining, Supervisor, Mr. Jackson W. Moffitt
Subject: Application for Permit to Drill (form 9-331c) Federal oil and
gas lease No. U-21037 Well No. 14-15

1. The location appears potentially valuable for:

☐ strip mining*

☐ underground mining**

☒ has no known potential.

2. The proposed area is

☐ under a Federal lease for _____ under
the jurisdiction of this office.

☒ not under a Federal lease under the jurisdiction of
this office.

☐ Please request the operator to furnish resistivity,
density, Gamma-Ray, or other appropriate electric
logs covering all formations containing potentially
valuable minerals subject to the Mineral Leasing Act
of 1920.

*If location has strip mining potential:

Surface casing should be set to at least 50 feet below the
lowest strip minable zone at _____ and cemented
to surface. Upon abandonment, a 300-foot cement plug should
be set immediately below the base of the minable zone.

**If location has underground mining potential:

The minable zones should be isolated with cement from a point
100 feet below the formation to 100 feet above the formation.
Water-bearing horizons should be cemented in like manner.
Except for salines or water-bearing horizons with potential
for mixing aquifers, a depth of 4,000 feet has been deemed
the lowest limit for cementing.

Signed *William J. Vance*

**** FILE NOTATIONS ****

DATE: July 8, 1980
OPERATOR: William C. Kirkwood
WELL NO: Hatch Canyon Unit #14-15 (Remington)
Location: Sec. 15 T. 31S R. 15E County: Garfield

File Prepared: ☒

Entered on N.I.D: ☒

Card Indexed: ☒

Completion Sheet: ☒

API Number 43-017-30086

CHECKED BY:

Petroleum Engineer: M.C. Under 7-9-80

Director: _____

Administrative Aide: OK on Unit boundary spacing

APPROVAL LETTER:

Bond Required: ☐

Survey Plat Required: ☐

Order No. _____

O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site

Lease Designation Prod Unit

Plotted on Map ☒

Approval Letter Written ☒

Hot Line ☒

P.I. ☒

htma

July 9, 1980

William C. Kirkwood
P.O. Drawer 3439
Casper, Wyoming 82601

RE: HCU #14-15 (Remington), Sec. 15, T. 31S, R. 15E., Garfield County, Utah
HCU #21-15 (Winfield), Sec. 15, T. 31S, R. 15E., Garfield County, Utah
HCU #22-20 (Monroe), Sec. 20, T. 31S, R. 15E., Garfield County, Utah
HCU #23-8 (Magnum), Sec. 8, T. 31S, R. 15E., Garfield County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil wells is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon these wells, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer
Office: 533-5771
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API numbers assigned to these wells are #14-15: 43-017-30086; #21-15: 43-017-30087; #22-20: 43-017-30088; #23-8: 43-017-30089.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Petroleum Engineer

/btm

cc: USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

| | | |
|--|--|---|
| 1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> | | 5. LEASE DESIGNATION AND SERIAL NO. U-21037 |
| b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A |
| 2. NAME OF OPERATOR William C. Kirkwood | | 7. UNIT AGREEMENT NAME N/A Hatch Canyon |
| 3. ADDRESS OF OPERATOR P. O. Drawer 3439, Casper Wyoming 82601 | | 8. FARM OR LEASE NAME Remington |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 697' FSL & 554' FWL (SW SW) At proposed prod. zone Same | | 9. WELL NO. #14-15 |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approximately 40 miles East of Hanksville, Utah | | 10. FIELD AND POOL, OR WILDCAT Wildcat |
| 15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 554' | | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 15 T31S R15E |
| 16. NO. OF ACRES IN LEASE 2560 | | 12. COUNTY OR PARISH Garfield |
| 17. NO. OF ACRES ASSIGNED TO THIS WELL 40 | | 13. STATE Utah |
| 18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2640' + | | 20. ROTARY OR CABLE TOOLS Rotary |
| 19. PROPOSED DEPTH 650' | | 22. APPROX. DATE WORK WILL START* June 15, 1980 |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5307' GR | | |

| PROPOSED CASING AND CEMENTING PROGRAM | | | | |
|---------------------------------------|----------------|-----------------|---------------|----------------------------------|
| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
| 8 1/2" | 6 5/8" New | 24# K-55 8 Rd. | 20' | 10 sxs cement, Class "G" 2% CaCl |
| 8 5/8" | 4 1/2" New | 9.5# K-55 8Rd. | 650' | 50 sxs cement, Class "G" 2% CaCl |

1. Drill 8 1/2" hole and set 6 5/8" surface casing to 20' with good returns.
2. Log B.O.P. checks in daily drill reports and drill 5 5/8" hole to 650'.
3. Run tests if warranted and run 4 1/2" casing if productive.
4. Run logs, as needed, and perforate and stimulate as needed.

EXHIBITS ATTACHED:

- "A" Location and Elevation Plat
- "B" The Ten-Point Compliance Program
- "D" The Multi-Point Requirements for A.P.D.
- "E" Access Road Maps to Location
- "F" Radius Map of Field

DUPLICATE COPY

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Wm. Clanchester TITLE Petro. Engr. DATE 2-14-80
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY W. D. Mouton FOR _____
CONDITIONS OF APPROVAL, IF ANY: _____ TITLE _____ DATE JUL 31 1980

COPIES OF THIS PERMIT ATTACHED
TO OPERATING COPY

NOTES ON APPROVAL

State oil & Gas

*See Instructions On Reverse Side

FILED
GAS
DATE 7/15/80
JUL 4-A

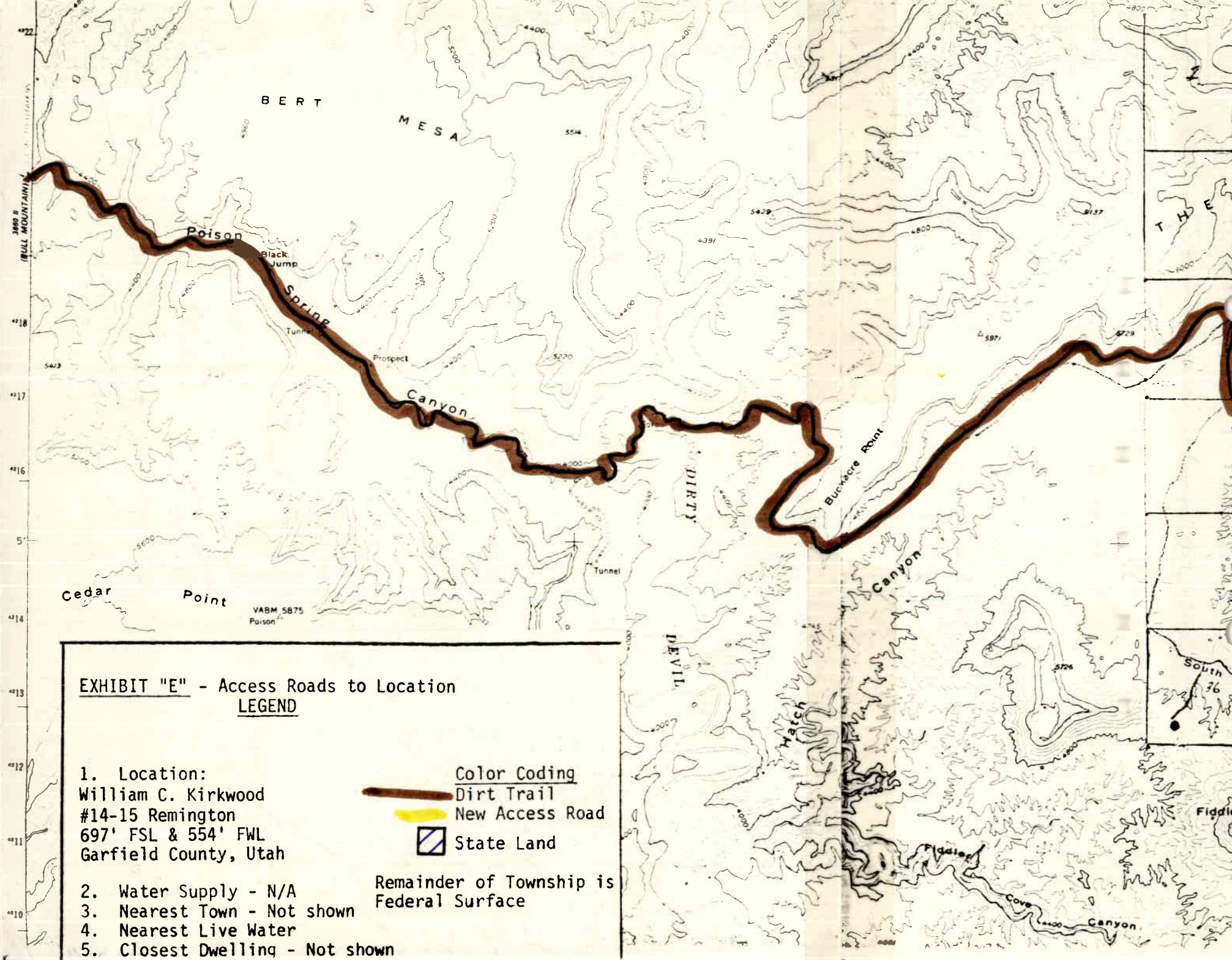


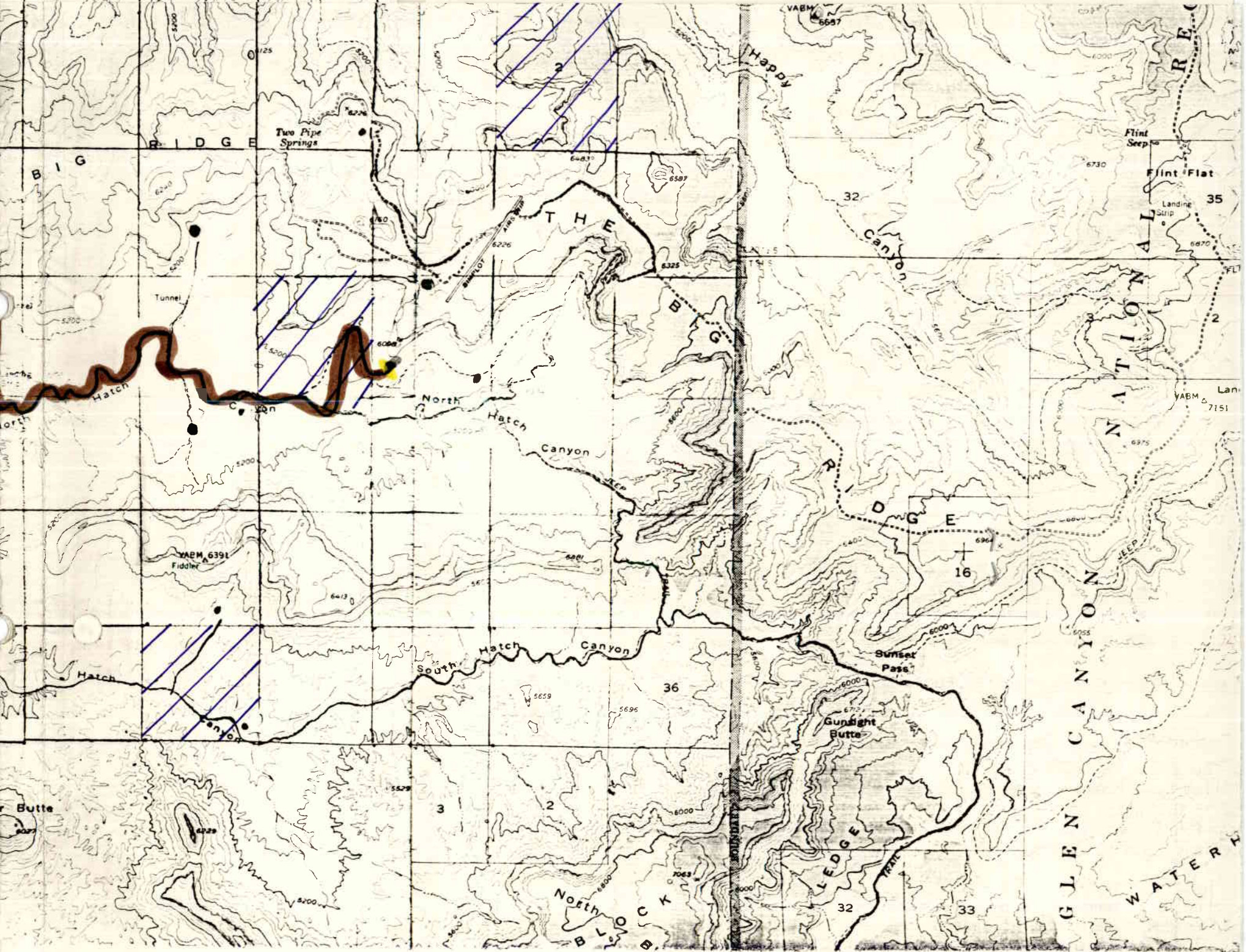
EXHIBIT "E" - Access Roads to Location
LEGEND

1. Location:
William C. Kirkwood
#14-15 Remington
697' FSL & 554' FWL
Garfield County, Utah

Color Coding
Dirt Trail
New Access Road
State Land

2. Water Supply - N/A
3. Nearest Town - Not shown
4. Nearest Live Water
5. Closest Dwelling - Not shown

Remainder of Township is
Federal Surface



William C. Kirkwood
14-15 Remington
Sec 15, T31S, R15E

| DEPTH | FORMATION | LITHOLOGY | THICKNESS DRILLED |
|-------------|-----------------|--|----------------------|
| 0- 160' | Chinle | Tan Sandstone, Gray Siltstone | 160' |
| 160- 475' | Moenkopi | Red & White Siltstone | 315' |
| 475- 529' | White Rim Upper | Interlayered Dolomite and Sandstone | 54' |
| 529- 720'? | White Rim | White Sandstone | 191'? |
| 720-1490'? | Cedar Mesa | Tan Sandstone with Red Siltstone near bottom | 770'? |
| 1490-1540'? | Elephant Canyon | Blue Lime Stone with Dolomite | 50'? |

T.D. at 1540' 2:00 AM 8/4/80

Bail at 800' (no water) at 1540' (approximately 10 gallons)

INTERVALS WITH SATURATION:

| | | |
|------|----------|--|
| 44' | 475-519' | White Rim Upper, Moderate Saturation in Sandstone layers |
| 10' | 519-529' | White Rim Upper, Moderate-Heavy Saturation in Sandstone layers |
| 150' | 529-679' | White Rim, Moderate to Heavy Saturation throughout with some Bleeding & Gas Bubbles present. |
| | 679-732' | no saturation |
| 9' | 732-741' | Moderate to heavy saturation throughout |
| | 741-770' | No saturation |
| 3' | 770-773' | Light to Moderate Saturation throughout |

188' moderate to heavy saturation with 28' light to moderate



SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON
Chairman

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
MAXILIAN A. FARBMAN
EDWARD T. BECK
E. STEELE MCINTYRE

May 21, 1981

William C. Kirkwood
P.O. Box Drawer 3439
Casper, Wyoming 82601

Re: SEE ATTACHED SHEET ON WELL DUE

Gentlemen:

In reference to above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not recieved any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. (If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill these wells and action will be taken to terminate the application.) If you plan on drilling these location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

SANDY BATES
CLERK-TYPIST

ATTACHED SHEET ON WELLS DUE

1. Well No. White Rim #44-4
Sec. 4, T. 31S. R. 15E.
Garfield County, Utah
2. Well No. Magnum #23-8
Sec. 8, T. 31S. R. 15E.
Garfield County, Utah
3. Well No. Remington #14-15
Sec. 15, T. 31S. R. 15E.
Garfield County, Utah
4. Well No. Winfield #21-15
Sec. 15, T. 31S. R. 15E.
Garfield County, Utah
5. Well No. Garfield #44-15
Sec. 15, T. 31S. R. 15E.
Garfield County, Utah
6. Well No. Hatch Canyon Unit #34-16A
Sec. 16, T. 31S. R. 15E.
Garfield County, Utah
7. Well No. Monroe #22-20
Sec. 20, T. 31S. R. 15E.
Garfield County, Utah
8. Well No. Eastex #41-20
Sec. 20, T. 31S. R. 15E.
Garfield County, Utah
9. Well No. State #11-2
Sec. 2, T. 32S. R. 15E.
Garfield County, Utah
10. Well No. State #31-16
Sec. 16, T. 32S. R. 15E.
Garfield County, Utah
11. Well No. State #34-16
Sec. 16, T. 31S. R. 15E.
Garfield County, Utah

WILLIAM C. KIRKWOOD

Suite 300 Market Square Building — 307/265-5178

P. O. Drawer 3439 — Casper, Wyoming 82602



OIL & GAS EXPLORATION & PRODUCTION

January 29, 1982

State of Utah
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, UT 84116

RE: Filing Additions to USGS Form
9-330 or OGCC-3

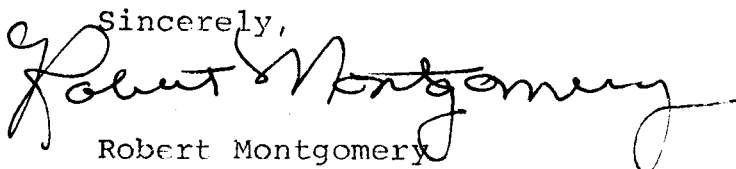
William C. Kirkwood
14-15 Remington
554' FWL 697' FSL
Sec. 15, T31S, R15E
Garfield County, Utah

Gentlemen:

Enclosed is a copy of the logs (where run), sample and core descriptions, geologic summaries and other data obtained during drilling and completion operations to date.

Our delay in the further completion of this well, is due to testing presently being done to determine the best method of completion to be used to produce oil from this reservoir. Testing is being done by the University of Utah Fuels Engineering Department on core samples and oil from this reservoir. Additional wells have been cored to obtain samples for analysis of reservoir characteristics and to further delineate oil reserves in the Hatch Canyon Unit. In addition several wells of a pilot test pattern have been drilled.

If you require further information or have any questions please contact me.

Sincerely,

Robert Montgomery

RM:bal

Enclosures

Texoil

William C. Kirkwood
#14-15 Remington
554' FWL 697' FSL
Sec 15 Twp 31S R 15E
Garfield Co., Utah
G.L. 5307'

| | | |
|---------|--------|-------|
| Spudded | 8/1/80 | |
| T.D. | 8/3/80 | 1540' |

RCM'79

| FM TOPS NOTES | DEPTHS | POROSITY | GRADES | ROUNDING | SORTING | % OF FMWRK | GRAIN SIZE | HOLE # 14 - 15 REMINGTON SPOT SEC 15 T 31S R 15E | | SATURATION- OIL | |
|------------------------|-----------|----------|--------|----------|---------|------------|---------------|---|-------------|-----------------|------------|
| | | | | | | | | LITHOLOGY | DISCRIPTION | | DIAGENESIS |
| START DRILL 8.11.80 | | | | | | | | | | | |
| CHAINLE (MOSS BLK) | 0'-10' | | | | P | 7 | | SURFACE DEBRIS & SS | GREY TO WT | CHALK CNT | NONIC |
| | 10'-150' | | | | P | 2 | | SS | GREEN TO WT | " | " |
| MOENTROP | 150'-200' | | | | P | 2 | | SLTST, RED | | " | " |
| | 200'-280' | | | | P | 6 | | SLTST, RED & WT w/ DOLO STRINGERS | | " | " |
| | 280'-350' | | | | P | 7 | | SLTST, WT w/ DOLO STRINGERS | | " | " |
| | 350'-390' | | | | P | 6 | | SLTST, RED & WT w/ DOLO STRINGERS | | " | " |
| | 390'-420' | | | | P | 7 | | SLTST, WT w/ DOLO STRINGERS | | " | " |
| | 420'-470' | | | | P | 8 | | SLTST, WT & RED w/ DOLO STRINGERS | | " | " |
| | 470'-475' | | | | P | 8 | | DOLO w/ RED & WHITE SLTST LYS | | " | " |

RCM'79

[illegible]

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT TRIPLICATE*
(Other instructions on
reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

| | | |
|---|---|--|
| 1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> 2. NAME OF OPERATOR W. C. Kirkwood Oil and Gas 3. ADDRESS OF OPERATOR P. O. Drawer 3439 Casper, WY 82602 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Wells located in Townships 31 and 32 South Ranges 14 & 15 East | | 5. LEASE DESIGNATION AND SERIAL NO. 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME 9. WELL NO. 10. FIELD AND POOL, OR WILDCAT 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 12. COUNTY OR PARISH 13. STATE |
| 14. PERMIT NO. | 15. ELEVATIONS (Show whether DF, RT, GR, etc.) | |

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

| | |
|--|---|
| TEST WATER SHUT-OFF <input type="checkbox"/> | PULL OR ALTER CASING <input type="checkbox"/> |
| FRACTURE TREAT <input type="checkbox"/> | MULTIPLE COMPLETE <input type="checkbox"/> |
| SHOOT OR ACIDIZE <input type="checkbox"/> | ABANDON* <input type="checkbox"/> |
| REPAIR WELL <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> |
| (Other) <input type="checkbox"/> | |

SUBSEQUENT REPORT OF:

| | |
|---|--|
| WATER SHUT-OFF <input type="checkbox"/> | REPAIRING WELL <input type="checkbox"/> |
| FRACTURE TREATMENT <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| SHOOTING OR ACIDIZING <input type="checkbox"/> | ABANDONMENT* <input type="checkbox"/> |
| (Other) <u>Well Status</u> <input type="checkbox"/> | |

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The wells described on the enclosed list are located within the Hatch Canyon Federal Oil and Gas Unit. This unit is located within the Tar Sand Triangle Special Tar Sand Area. All operations within the Hatch Canyon Unit have been suspended pending conversion of the federal leases within the unit to Combined Hydrocarbon Leases. Thus all operations on these wells have been suspended until conversion has taken place. At that time an additional Sundry Notice will be submitted outlining future activities involving these wells.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Geologist

DATE March 22, 1984

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

William C. Kirkwood
#14-36 Technology
2076' FWL 746' FSL
Sec 36 Twp 31S R 14E
Garfield County, Utah
G.L. 4823'

Spudded 6/23/80
T.D. 6/25/80 462'

Deepened 7/1/80
T.D. 7/12/80 1000'

William C. Kirkwood
#33-29 Cromwell
2023' FEL 741' FSL
Sec 29 Twp 31S R 15E
Garfield County, Utah
G.L. 5120

Spudded 7/5/80
T.D. 7/8/80 700'

William C. Kirkwood
#23-8 Magnum
1934' FEL 1667' FSL
Sec 8 Twp 31S R 15E
Garfield County, Utah
G.L. 5084

Spudded 7/17/80
T.D. 7/22/80 1100'

William C. Kirkwood
#22-20 Monroe
2962' FEL 1790' FNL
Sec 20 Twp 31S R 15E
Garfield County, Utah
G.L. 4988

Spudded 7/9/80
T.D. 7/15/80 800'

William C. Kirkwood
#14-15 Remington
554' FWL 697' FSL
Sec 15 Twp 31S R 15E
Garfield County, Utah
G.L. 5307'

Spudded 8/1/80
T.D. 8/3/80 1540'

William C. Kirkwood
#14-15 Garfield
4497' FWL 599' FSL
Sec 15 Twp 31S R 15E
Garfield County, Utah
G.L. 5321'

Spudded 8/4/80
T.D. 8/6/80 1000'

William C. Kirkwood
#21-15 Winfield
2222' FWL 481' FNL
Sec 15 Twp 31S R 15E
Garfield County, Utah
G.L. 6127'

Spudded 8/12/80
T.D. 8/14/80 1800'

William C. Kirkwood
#44-4 White Rim
401' FEL 1498' FSL
Sec 4 Twp 31S R 15E
Garfield County, Utah
G.L. 6005'

Spudded 8/14/80
T.D. 8/16/80 1640'

William C. Kirkwood
#34-16 State
699' FSL 1842' FEL
Sec 16 Twp 31S R 15E
Garfield County, Utah
G.L. 5058'

Spudded 8/22/80
T.D. 8/24/80 620'

William C. Kirkwood
#34-16 Hatch Canyon Unit
SWSE 16-31S-15E
699' FSL 1842' FEL

Spudded 8/22/80
T.D. 620'
G.L. 5058'

William C. Kirkwood
34-16A Hatch Canyon Unit
SWSE 16-31S-15E
752 FSL 1789 FEL

Spudded 10/6/80
T.D. 440'
G.L. 5058'

William C. Kirkwood
34-16B Hatch Canyon Unit
SWSE 16-31S-15E
805' FSL 1736' FEL

Spudded 6/21/81
T.D. 800'
G.L. 5058'

William C. Kirkwood
34-16C Hatch Canyon Unit
SWSE 16-31S-15E
699' FSL 1736' FEL

Spudded 12/19/81
T.D. 500'
G.L. 5058'

William C. Kirkwood
34-16C Hatch Canyon Unit
SWSE 16-31S-15E
805' FSL 1842' FEL

Spudded 6/12/82
T.D. 510'
G.L. 5058'

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

| | | |
|--|--|---|
| SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.) | | 5. LEASE DESIGNATION AND SERIAL NO. U-21037 |
| 1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A |
| 2. NAME OF OPERATOR William C. Kirkwood | | 7. UNIT AGREEMENT NAME Hatch Canyon |
| 3. ADDRESS OF OPERATOR P.O. Box 3439, Casper, WY 82602 | | 8. FARM OR LEASE NAME Remington |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 554' FWL 697' FSL | | 9. WELL NO. 14-15 |
| 14. PERMIT NO. 43-017-30086 | | 10. FIELD AND POOL, OR WILDCAT Wildcat |
| 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5307' GL | | 11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Sec. 15, T31S, R15E |
| | | 12. COUNTY OR PARISH <i>Harfield</i> |
| | | 13. STATE <i>Utah</i> |

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
|--|---|---|--|
| TEST WATER SHUT-OFF <input type="checkbox"/> | PULL OR ALTER CASING <input type="checkbox"/> | WATER SHUT-OFF <input type="checkbox"/> | REPAIRING WELL <input type="checkbox"/> |
| FRACTURE TREAT <input type="checkbox"/> | MULTIPLE COMPLETE <input type="checkbox"/> | FRACTURE TREATMENT <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| SHOOT OR ACIDIZE <input type="checkbox"/> | ABANDON* <input type="checkbox"/> | SHOOTING OR ACIDIZING <input type="checkbox"/> | ABANDONMENT* <input type="checkbox"/> |
| REPAIR WELL <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> | (Other) <input type="checkbox"/> | |
| (Other) <input type="checkbox"/> | <input checked="" type="checkbox"/> | (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) | |

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well is located in the Hatch Canyon Unit. All operations in this Unit have been suspended pending the conversion of Federal Oil and Gas Leases within this Unit to Combined Hydrocarbon leases. Once these leases are converted a new Combined Hydrocarbon Unit will be formed and operations resumed. Until that time this well has been shut in and temporarily abandoned.

RECEIVED

JAN 17 1985

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

Robert Montgomery

TITLE Geologist

DATE 1-4-85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
RICHFIELD DISTRICT OFFICE
150 EAST 900 NORTH
RICHFIELD, UTAH 84701



IN REPLY REFER TO:

3162.3-4
(U-052)

March 25, 1991

CERTIFIED MAIL No. P437 740 244
Return Receipt Requested

Mr. William C. Kirkwood (N32607)
Drawer 3439
Casper, Wyoming 82602

Dear Mr. Kirkwood:

RECEIVED

MAR 27 1991

DIVISION OF
OIL GAS & MINING

Lease U-21307 automatically terminated on September 1, 1990 due to failure to make timely payments as required in 43 CFR 3103.2-2. The records in this office indicate that the following wells on this lease are unplugged:

Well No. 14-15, SW1/4SW1/4 43-017-30086 - E1S 15E #15 SOW

Well No. 21-15, NE1/4NW1/4 43-017-30087 - E1S 15E #15 SOW

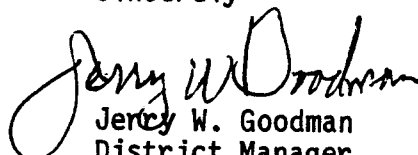
Well No. 44-15, SE1/4SE1/4 43-017-30092 - E1S 15E #15 SOW

These wells are located in T. 31 S., R. 15 E., Section 15 in Garfield County, Utah. A notification that this office has received from the State of Utah indicates that four (4) shallow, unplugged holes are associated with Well No. 14-15.

If you have records indicating the status of these wells is other than unplugged, please notify this office immediately. Otherwise, as the recognized operator and responsible party, you shall prepare a proposal as a Sundry Notice to permanently plug and abandon all the referenced wells in a timely manner. These Sundry Notices shall be submitted to this office within thirty (30) days from receipt of this letter.

Depending on your response, you may want to jointly inspect these wells with my staff. If you have any questions in this matter, please contact Michael Jackson at (801) 896-8221.

Sincerely


Jerry W. Goodman
District Manager

Enclosure:
Form 3160-5

cc: LORT--Raymond Joeckel
200 16th Street
Denver, CO 80202
U-922
HMRA
DOGM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3. Address and Telephone No.

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other _____

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

RECEIVED

MAR 27 1991

**DIVISION OF
OIL GAS & MINING**

14. I hereby certify that the foregoing is true and correct

Signed _____ Title _____ Date _____

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
RICHFIELD DISTRICT OFFICE
150 EAST 900 NORTH
RICHFIELD, UTAH 84701



IN REPLY REFER TO:

3162.3-4
(U-052)

March 25, 1991

CERTIFIED MAIL No. P437 740 244
Return Receipt Requested

Mr. William C. Kirkwood (N32607)
Drawer 3439
Casper, Wyoming 82602

Dear Mr. Kirkwood:

RECEIVED

MAR 27 1991

DIVISION OF
OIL GAS & MINING

Lease U-21307 automatically terminated on September 1, 1990 due to failure to make timely payments as required in 43 CFR 3103.2-2. The records in this office indicate that the following wells on this lease are unplugged:

Well No. 14-15, SW1/4SW1/4 43-017-30086

Well No. 21-15, NE1/4NW1/4 43-017-30087

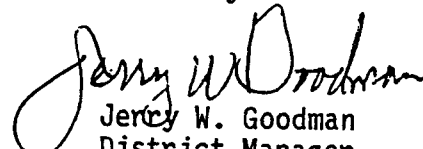
Well No. 44-15, SE1/4SE1/4 43-017-30092

These wells are located in T. 31 S., R. 15 E., Section 15 in Garfield County, Utah. A notification that this office has received from the State of Utah indicates that four (4) shallow, unplugged holes are associated with Well No. 14-15.

If you have records indicating the status of these wells is other than unplugged, please notify this office immediately. Otherwise, as the recognized operator and responsible party, you shall prepare a proposal as a Sundry Notice to permanently plug and abandon all the referenced wells in a timely manner. These Sundry Notices shall be submitted to this office within thirty (30) days from receipt of this letter.

Depending on your response, you may want to jointly inspect these wells with my staff. If you have any questions in this matter, please contact Michael Jackson at (801) 896-8221.

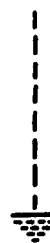
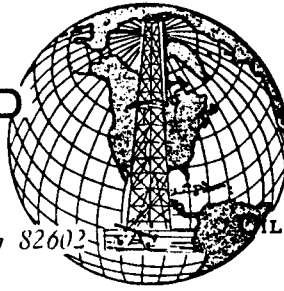
Sincerely


Jerry W. Goodman
District Manager

Enclosure:
Form 3160-5

cc: LORT--Raymond Joeckel
200 16th Street
Denver, CO 80202
U-922
HMRA
DOGM

WILLIAM C. KIRKWOOD



120 South Durbin — 307/265-5178
P. O. Drawer 3439 — Casper, Wyoming 82602

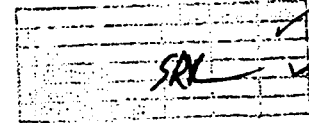
OIL & GAS EXPLORATION & PRODUCTION

June 3, 1991

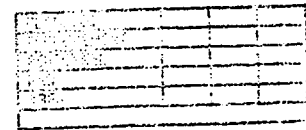
RECEIVED

AUG 26 1991

DIVISION OF
OIL GAS & MINING



JUN 5 1991



Bureau of Land Management
Richfield District Office
150 East 900 North
Richfield, UT 84701

Attention: Michael Jackson

Re: Hatch Canyon Unit
Well # 14-15, 21-15, 44-15
Sec. 15, T31S, R15E
Garfield County, UT

Gentlemen:

Enclosed please find Sundry Notices for plugging three wells in the Hatch Canyon Unit located in Section 15.

With regard to your concern of the four shallowed unplugged holes associated with the #14-15 well: Kirkwood has no record of any such wells, however, we do have a five spot pattern located in Section 16 (copies of location plot and completion reports enclosed). This pattern could possibly be what they are talking about.

If I can be of further assistance, please advise.

Sincerely,

Robert Kirkwood
Engineer

RK/mm

Enclosures

RECEIVED

AUG 26 1991

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
U-21037

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA, Agreement Designation

Hatch Canyon Unit

8. Well Name and No.
#14-15

9. API Well No.
43-017-30086

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Garfield, UT

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

William C. Kirkwood

3. Address and Telephone No.

P. O. Box 3439 Casper, WY 82602 (307) 265-5178

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

554' FWL, 697' FSL
Sec. 15, T31S, R15E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☒ Final Abandonment Notice

TYPE OF ACTION

☒ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Kirkwood proposes to abandon the 14-15 well as follows:

1. Pressure test casing to 200 PSI for 15 minutes.
2. Mix and set 20' surface plug.
3. Screw 4½" dry hole marker into 4½" production casing.
4. Reseed location as necessary.

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE:

8-28-91

BY:

[Signature]

RECEIVED

AUG 26 1991

DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

[Signature]

Title

Engineer

Date

6/3/91

(This space for Federal or State office use)

Approved by

[Signature]

Title

[Signature]

Date

8/23/91

Conditions of approval, if any:

SEE ATTACHED

CONDITIONS OF APPROVAL
SUNDRY NOTICE (DATED 6/3/91)

Company: William C. Kirkwood
Well No.: 14-15
Location: Section 15, T. 31 S., R. 15 E., SLM
Lease No.: U-21037

General Conditions:

1. All lease operations shall be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100 and 3160, Onshore Oil and Gas Orders, the approved application for permit to drill, and this Sundry Notice.
2. The operator is fully responsible for the actions of its subcontractors.
3. A copy of this approved Sundry Notice shall be available at the well site for the operator and/or subcontractors.
4. The operator or contractor shall contact the Henry Mountains Resource Area, BLM, at least forty eight (48) hours prior to access, plugging and/or reclamation activities. Contact Francis Rakow, Area Geologist, at (801) 542-3461.
5. You are requested to plug the well within 60 days of receipt of this approval or notify this office for reason of delay.
6. Within thirty (30) days following completion of well abandonment, the lessee or operator shall file a Subsequent Report of Abandonment on Form 3160-5 in accordance with 43 CFR 3160. Upon completion of reclamation operations, the lessee or operator shall notify the authorized officer when the location is ready for inspection via a Final Abandonment Notice on Form 3160-5. Final abandonment shall not be approved until the surface reclamation required by the approved drilling permit has been approved by the BLM. Please file these forms with the District Manager, Richfield District Office, BLM.

Subsurface Conditions:

1. Spacer fluid shall be a minimum 9.0 ppg (pounds per gallon) fresh water and bentonite.
2. Surface plug shall be a minimum of 50 feet in length.

RECEIVED

AUG 26 1991

DIVISION OF
OIL, GAS & MINING

RECEIVED

AUG 26 1991

**DIVISION OF
OIL, GAS & MINING**

William C. Kirkwood
Well 14-15, U-21037

3. The operator shall contact the Petroleum Engineering Technician, Cedar City District Office, at least forty-eight (48) hours prior to pressure testing of any casing string and mixing and setting the spacer fluid and surface plug. Contact Theron Mitchell, PET, at:

(801) 586-2401 Cedar City District Office

(801) 586-2719 Home

If cannot reach at above, call:

(801) 826-4291 Escalante Resource Area

(801) 826-4347 After work hours

Surface Conditions:

1. The drill site shall not be bladed.
2. Rock cairns on the access road shall be left intact, if present.
3. Upon completion of plugging and abandonment operations, the reserve pit shall be covered, the site shall be disked, and the following seed mixture shall be hand broadcasted over the site:

| <u>Species</u> | <u>lbs/acre</u> |
|------------------|-----------------|
| Shadscale | 3 |
| Indian ricegrass | 3 |
| Galleta grass | 2 |

4. All trash and debris shall be carried off-site and disposed in a landfill approved by the BLM.
5. Access to the site shall be confined to the existing road. Blading, only if necessary, shall be kept to a minimum by removing only those rocks and debris blocking the road and by filling any washed out areas. Blading, if necessary, shall not exceed the width of the existing road berm and road surface. The road shall not be widened.
6. The entire project shall be covered by the following protective measures:
 - a. No off-road driving shall be authorized. Four-wheel drive vehicles shall be restricted to existing roads.
 - b. No uranium mining claim markers, or cairns, shall be destroyed nor damaged.
7. As required in 43 CFR 3162.6(d), the well shall be marked with a permanent monument with the following information: well number, name of the operator, lease serial number, and surveyed location (quarter-quarter section, section, township and range).
8. If access requires use of roads through Glen Canyon National Recreation Area, authorization, if necessary, must be obtained with a Special Use Permit from the National Park Service.

ROUTING AND TRANSMITTAL SLIP

Date

8/23/91

TO: (Name, office symbol, room number, building, Agency/Post)

Initials

Date

1. Frank Matthews

2. DOGM

3. STATE OF UTAH, Division of Oil, Gas & Mining

4. 3Tried Center, Sec 350

5. JLC, DAIED - 1203

| | | |
|--------------|--|-----------------|
| Action | <input checked="" type="checkbox"/> File | Note and Return |
| Approval | For Clearance | For Clearance |
| As Requested | For Correction | Prepare Report |
| Circulate | For Your Information | See Me |
| Comment | Investigate | Signature |
| Coordination | Justify | |

RECEIVED

AUG 28 1991

REMARKS

Approval for
Enclosed are the **DIVISION OF OIL, GAS & MINING** for
PEA of 3 wells on BLM lands.

Also, enclosed are reports related to wells on Sec. 16, which I'd talked to you about.

Give me a call if questions.

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)

Room No.—Bldg.

Michael Jackson

BLM-Richfield

Phone No.

801 896-8221

5041-102

OPTIONAL FORM 41 (Rev. 7-76)
Prescribed by GSA
FPMR (41 CFR) 101-11.206

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

| | |
|--|--|
| 1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other | 5. Lease Designation and Serial No. U-21037 |
| 2. Name of Operator William C. Kirkwood | 6. If Indian, Allottee or Tribe Name NA |
| 3. Address and Telephone No. P. O. Box 3439 Casper, WY 82602 (307) 265-5178 | 7. If Unit or CA, Agreement Designation Hatch Canyon Unit |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 554' FWL, 697' FSL Sec. 15, T31S, R15E | 8. Well Name and No. #14-15 |
| | 9. API Well No. 43-017-30086 |
| | 10. Field and Pool, or Exploratory Area Wildcat |
| | 11. County or Parish, State Garfield, UT |

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | |
|--|---|--|
| <input checked="" type="checkbox"/> Notice of Intent | <input checked="" type="checkbox"/> Abandonment | <input type="checkbox"/> Change of Plans |
| <input type="checkbox"/> Subsequent Report | <input type="checkbox"/> Recompletion | <input type="checkbox"/> New Construction |
| <input checked="" type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Plugging Back | <input type="checkbox"/> Non-Routine Fracturing |
| <i>Changed to NOI, 8/23/91</i> | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Water Shut-Off |
| <i>M. Jackson, BLM</i> | <input type="checkbox"/> Altering Casing | <input type="checkbox"/> Conversion to Injection |
| | <input type="checkbox"/> Other | <input type="checkbox"/> Dispose Water |

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Kirkwood proposes to abandon the 14-15 well as follows:

1. Pressure test casing to 200 PSI for 15 minutes.
2. Mix and set 20' surface plug.
3. Screw 4½" dry hole marker into 4½" production casing.
4. Reseed location as necessary.

RECEIVED

NOV 27 1991

DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title Engineer Date 6/3/91

(This space for Federal or State office use)

Approved by [Signature] Title Acting District Manager Date 8/23/91

Conditions of approval, if any:

SEE ATTACHED

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

CONDITIONS OF APPROVAL
SUNDRY NOTICE (DATED 6/3/91)

Company: William C. Kirkwood
Well No.: 14-15
Location: Section 15, T. 31 S., R. 15 E., SLM
Lease No.: U-21037

General Conditions:

1. All lease operations shall be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100 and 3160, Onshore Oil and Gas Orders, the approved application for permit to drill, and this Sundry Notice.
2. The operator is fully responsible for the actions of its subcontractors.
3. A copy of this approved Sundry Notice shall be available at the well site for the operator and/or subcontractors.
4. The operator or contractor shall contact the Henry Mountains Resource Area, BLM, at least forty eight (48) hours prior to access, plugging and/or reclamation activities. Contact Francis Rakow, Area Geologist, at (801) 542-3461.
5. You are requested to plug the well within 60 days of receipt of this approval or notify this office for reason of delay.
6. Within thirty (30) days following completion of well abandonment, the lessee or operator shall file a Subsequent Report of Abandonment on Form 3160-5 in accordance with 43 CFR 3160. Upon completion of reclamation operations, the lessee or operator shall notify the authorized officer when the location is ready for inspection via a Final Abandonment Notice on Form 3160-5. Final abandonment shall not be approved until the surface reclamation required by the approved drilling permit has been approved by the BLM. Please file these forms with the District Manager, Richfield District Office, BLM.

Subsurface Conditions:

1. Spacer fluid shall be a minimum 9.0 ppg (pounds per gallon) fresh water and bentonite.
2. Surface plug shall be a minimum of 50 feet in length.

William C. Kirkwood
Well 14-15, U-21037

3. The operator shall contact the Petroleum Engineering Technician, Cedar City District Office, at least forty-eight (48) hours prior to pressure testing of any casing string and mixing and setting the spacer fluid and surface plug. Contact Theron Mitchell, PET, at:

(801) 586-2401 Cedar City District Office

(801) 586-2719 Home

If cannot reach at above, call:

(801) 826-4291 Escalante Resource Area

(801) 826-4347 After work hours

Surface Conditions:

1. The drill site shall not be bladed.
2. Rock cairns on the access road shall be left intact, if present.
3. Upon completion of plugging and abandonment operations, the reserve pit shall be covered, the site shall be disked, and the following seed mixture shall be hand broadcasted over the site:

| <u>Species</u> | <u>lbs/acre</u> |
|------------------|-----------------|
| Shadscale | 3 |
| Indian ricegrass | 3 |
| Galleta grass | 2 |

4. All trash and debris shall be carried off-site and disposed in a landfill approved by the BLM.
5. Access to the site shall be confined to the existing road. Blading, only if necessary, shall be kept to a minimum by removing only those rocks and debris blocking the road and by filling any washed out areas. Blading, if necessary, shall not exceed the width of the existing road berm and road surface. The road shall not be widened.
6. The entire project shall be covered by the following protective measures:
 - a. No off-road driving shall be authorized. Four-wheel drive vehicles shall be restricted to existing roads.
 - b. No uranium mining claim markers, or cairns, shall be destroyed nor damaged.
7. As required in 43 CFR 3162.6(d), the well shall be marked with a permanent monument with the following information: well number, name of the operator, lease serial number, and surveyed location (quarter-quarter section, section, township and range).
8. If access requires use of roads through Glen Canyon National Recreation Area, authorization, if necessary, must be obtained with a Special Use Permit from the National Park Service.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

| | | |
|--|--|---|
| SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals. | | 5. Lease Designation and Serial Number: <u>U-21037</u> |
| | | 6. If Indian, Allottee or Tribe Name: |
| | | 7. Unit Agreement Name: <u>Hatch Canyon Unit</u> |
| 1. Type of Well: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER: | | 8. Well Name and Number: <u>Remington 14-15</u> |
| 2. Name of Operator: <u>WILLIAM C. KIRKWOOD</u> | | 9. API Well Number: <u>4301730086</u> |
| 3. Address and Telephone Number: <u>P. O. BOX 3439 CASPER, WY 82602-3439</u> | | 10. Field and Pool, or Wildcat: |
| 4. Location of Well Footages: <u>697' FSL, 554' FWL</u> QQ, Sec., T., R., M.: <u>SWSW Sec 15, T31S, R15E</u> | | County: <u>Garfield</u> State: <u>Utah</u> |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| NOTICE OF INTENT (Submit in Duplicate) | SUBSEQUENT REPORT (Submit Original Form Only) |
|---|--|
| <input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____ | <input checked="" type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off | <input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off |
| Approximate date work will start _____ | Date of work completion _____ Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. • Must be accompanied by a cement verification report. |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The above referenced well was plugged and abandoned at the request of the BLM in August, 1992.

RECEIVED

DEC 21 1992

DIVISION OF
OIL, GAS & MINING13. Name & Signature: William C. Kirkwood Title: Engineer Date: 12/18/92

(This space for State use only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

William C. Kirkwood

3. Address and Telephone No.

P. O. Box 3439, Casper, WY 82601, 307 265-5178

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

554' FWL, 697' FSL
Sec. 15, T31S, R15E

5. Lease Designation and Serial No.

U-21037

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

Hatch Canyon Unit

8. Well Name and No.

#14-15

9. API Well No.

43-017-30086

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Garfield, UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☒ Final Abandonment Notice

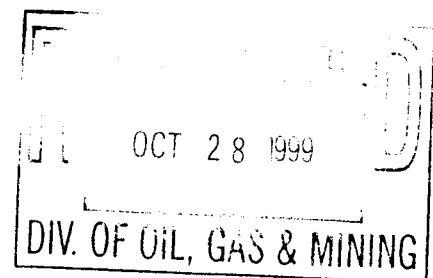
TYPE OF ACTION

- ☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other _____
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Please be advised that the above referenced well has been plugged in accordance with the approved plan and is ready for final inspection.



14. I hereby certify that the foregoing is true and correct

Signed

Title Engineer

Date 10/25/99

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

KIRKWOOD OIL & GAS

Fax Cover This is a confidential message, intended solely for the person to whom it is addressed. If you receive this message in error, please forward it to the correct person, or mail it back to us. Thank you.

To Carol Daniels
Fax No. 801-359-3940
From Robert Kirkwood
Date/Time 11/4/1999 at 9:22AM
Subject Utah well P & A dates
Pages 1, Including this one

Carol:

The P&A dates you requested are as follows:

| | |
|------------------|---------|
| Monroe 22-20 | 10/7/99 |
| Magnum 23-8 | 10/8/99 |
| Cromwell 33-29 | 10/9/99 |
| White Rim 44-31 | 10/5/99 |
| Technology 14-36 | 10/8/99 |
| Garfield 44-15 | 8/19/92 |
| Remington 14-15 | 8/19/92 |
| Winfield 21-15 | 8/18/92 |

If you need more information please let me know.

307 265-5178

Fax 307 265-1791